

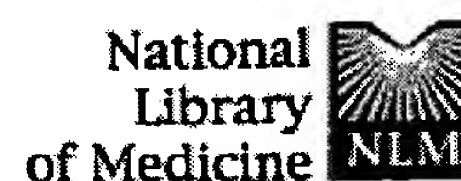
09/667,569 SEARCH RESULTS/HISTORY

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT
13:35:40 ON 04 MAR 2003

L1 272 S (PANTOTHENATE (W) KINASE) OR (PANTOTHENIC (W) ACID (W) KINASE
L2 63 S L1 AND (MUTANT OR MUTAGENESIS OR MUTATION OR SUBSTITUT? OR RE
L3 26 DUP REM L2 (37 DUPLICATES REMOVED)

=>

	Hits	Search Text	DBs
1	2	pantothenate near10 bacillus	USPAT; US-PGPUB; EPO; JPO; DERWENT
2	6	pantothenate and pane	USPAT; US-PGPUB; EPO; JPO; DERWENT
3	27450	((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase) or pane!	USPAT; US-PGPUB; EPO; JPO; DERWENT
4	3601	((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase) or pane!) and panto\$ or pantothenate	USPAT; US-PGPUB; EPO; JPO; DERWENT
5	53	"13" and overexpress	USPAT; US-PGPUB; EPO; JPO; DERWENT
6	9	((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase)	USPAT; US-PGPUB; EPO; JPO; DERWENT
7	2	5518906.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT
8	19	panto\$ and (coax or (pantothenate adj kinase))	USPAT; US-PGPUB; EPO; JPO; DERWENT
9	333	kinase and reductase and panto\$	USPAT; US-PGPUB; EPO; JPO; DERWENT
10	32	kinase near10 reductase and panto\$	USPAT; US-PGPUB; EPO; JPO; DERWENT
11	12	(pantothenate adj kinase) or (pantothenic adj acid adj kinase)	USPAT; US-PGPUB; EPO; JPO; DERWENT



PubMed

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Protein

Genome

Structure

PMC

Taxonomy

OMIM

Bio

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#23 Related Articles for PubMed (Select 2842294)	13:41:15	<u>114</u>
#21 Search Vallari and Jackowski	13:41:00	<u>2</u>
#19 Related Articles for PubMed (Select 2824448)	13:26:40	<u>160</u>
#17 Search "pantothenate kinase" and mutation	13:25:33	<u>12</u>
#16 Search "pantothenate kinase" and substitution	13:25:26	<u>0</u>
#15 Search "pantothenate kinase" and mutagenesis	13:24:32	<u>3</u>
#14 Search pank and kinase and mutagenesis	13:24:17	<u>0</u>
#13 Search pank and kinase and substitution	13:24:10	<u>0</u>
#12 Search pank and kinase and mutant	13:24:00	<u>1</u>
#11 Search pank and kinase and mutation	13:23:47	<u>1</u>
#9 Search #7 AND mutant	13:21:45	<u>19</u>
#8 Search #7 and mutant	13:21:35	<u>113</u>
#7 Related Articles for PubMed (Select 1328157)	13:21:22	<u>113</u>
#4 Related Articles for PubMed (Select 7929447)	13:19:31	<u>257</u>
#2 Search #1 AND mutant	13:18:05	<u>5</u>
#1 Search "pantothenate kinase"	13:17:42	<u>56</u>

Clear History

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Feb 19 2003 14:38:47

IUBMB Enzyme Nomenclature

EC 2.7.1.33

Common name: pantothenate kinase

Reaction: ATP + pantothenate = ADP + D-4'-phosphopantothenate

Other name(s): pantothenate kinase (phosphorylating); pantothenic acid kinase

Systematic name: ATP:pantothenate 4'-phosphotransferase

Links to other databases: [BRENDA](#), [EXPASY](#), [KEGG](#), [WIT](#), CAS registry number: 9026-48-6

References:

1. Abiko, Y., Ashida, S.-I. and Shimizu, M. Purification and properties of D-pantothenate kinase from rat liver. *Biochim. Biophys. Acta* 268 (1972) 364-372. [Medline UI: [72185304](#)]
2. Brown, G.M. The metabolism of pantothenic acid. *J. Biol. Chem.* 234 (1959) 370-378.
3. Pierpoint, W.S., Hughes, D.E., Baddiley, J. and Mathias, A.P. The phosphorylation of pantothenic acid by *Lactobacillus arabinosus* 17-5. *Biochem. J.* 61 (1955) 368-374.

[EC 2.7.1.33 created 1961]

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